Staff Presentation Workshop Report on Distributed Generation Interconnection Rules

Presented at Siting Committee Hearing 99-DIST-GEN(2)

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Acknowledgements

Y Staff Responsible for Preparation of Report

- Judy Grau, Pramod Kulkarni, Jeff Ogata, and Scott Tomashefsky
- FOCUS Contract: Jon Edwards, Contract Manager

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¥ FOCUS Team

— Bill Brooks, Cris Cooley, MikeEdds, Edan Prabhu, Chuck Whitaker

¥ Key Stakeholders

— Tom Dossey, Gerry Torribio, David Townley, Dylan Savidge, Peter Ouborg, Nat Treadway

Significant Errata to Workshop Report

- ¥ Figure 1 Initial Review Process (Page 15)
 - Report omitted screen associated with aggregated load on a distribution line being less than 15% of total load.
- Y Omitted Comment Regarding Effect of Rule 21 on Current Rule 21 Language
 - SDG&E has expressed a desire to retain unique aspects of its current Rule language that are not part of the proposed Rule 21 language.
 - ¥ SDG&E intends to incorporate once CPUC adopts new Rule language
 - * Other utilities may have similar desires but issue was not raised during working group discussions.
 - Bottom Line: SDG&E believes this action will not take away from the spirit of standardizing rule language.

Staff Workshop Report Outline

- ¥ Introduction
- Y Overview of Workshop Process
- * Responsiveness of Workshop Process to CPUC OIR
- ¥ Rule 21 Overview and Discussion
- ¥ Other Issues of Concern
- ¥ Staff Recommendations
- ¥ Next Steps
- ¥ Attachments
 - Rule 21 Compilation Document
 - Sample Application Forms and Interconnection Agreements

Introduction

¥ Report Goal

 Provide Committee with proposed Rule language that could apply to all distributed generators seeking to inteconnect with CPUC-regulated utilities.

¥ Guiding Principles

- Rules, protocols and processes should be clear and transparent.
- Rules should be technology neutral, except when differences are fully justified.
- A level playing field should be established for all DG providers.
- Rules should be uniform throughout California.
- UDCs should be fairly compensated for distribution services that support DG installations and customers.

Overview of Workshop Process

- Y Process began with December 1999 Siting Committee workshop and subsequent order establishing working groups.
- ¥ Eight working group meetings held during January March.
 - Approximately 75 people actively participated in working group process.
 - ¥ Utilities, manufacturers, marketers, small consumers represented.
 - ¥ Much needed support provided under PIER contract with Onsite Syscom
 - ¥ Subgroups met another 20 times to discuss specific issues.
 - Meetings moderated/facilitated by Energy Commission staff.
- * Working group focus on developing Rule 21 tariff language for CPUC consideration.
 - Work consistent with principles outlined in December 1999 Siting Committee order and CPUC Rulemaking.

Responsiveness of Workshop Process to CPUC OIR

₹ Process responds to each of the 13 interconnection issues raised in CPUC Rulemaking R.99-10-025.

¥ Notables

- OIR Topic #6 (Need to Develop California Standards)
 - ¥ Although national efforts began before California effort started, most technical working group members believe that California standards will be put in place ahead of national standards.
 - ¥ IEEE effort only focuses on technical aspects of interconnection. California s focus has been on technical and non-technical areas.

Rule 21 Overview

- ¥ Applicability and Introductions
- ¥ General Rules, Rights, and Obligations
- ¥ Application and Interconnection Process
- ¥ Generating Facility Design and Operation Requirement
- ¥ Interconnection Facility Ownership and Financing
- ¥ Metering, Monitoring, and Telemetry
- **¥** Dispute Resolution Process
- **Y** Definitions
- ¥ Appendices
 - Initial Review Process
 - Testing and Certification

Rule 21 Overview - Section 1 Applicability and Introductions

- ¥ Objective: Identify parties subject to Rule 21.
 - Only applies to utilities under CPUC jurisdiction
 - Doesn t apply to municipalities and irrigation districts
- * No major concerns voiced by parties.

Rule 21 Overview - Section 2 General Rules, Rights, and Obligations

- Y Objective: Provide general rules applicable to the interconnection application process and procedures associated with design, safe operation, curtialment, and disconnection provisions of the Rule.
- ¥ Principles generally accepted by the group with noted exceptions.
- **Y** Concerns expressed with respect to:
 - Section 2.4 Compliance with Laws, Rules, and Tariffs
 - Section 2.7 Confidentiality of Information
 - Section 2.10 Curtailment/Disconnection Rules

Rule 21 Overview - Section 3 Application and Interconnection Process

- Y Objective: Details steps necessary for a distributed generator to connect to an Electrical Corporation.
- ¥ Initial Review Process concept generally endorsed by the group with noted exceptions.
- * Concerns expressed with respect to:
 - Firm dates for interconnection application reviews.
 - The calculation of interconnection study costs.
 - Whether the ISO should be notified when an application is submitted and when an application is completed.

Rule 21 Overview - Section 4 Generating Facility Design and Operating Requirements

- Y Objective: Provide technical framework for the interconnection process.
- ¥ Work focused on ensuring technical consistency with the Initial Review Process contained in Section 3.
- ¥ Concerns expressed with respect to:
 - Lack of input from non-technical participants in working group process.

Rule 21 Overview - Section 5 Interconnection Facility Ownership and Financing

- ¥ Objective: Determine cost responsibility for interconnection.
- ¥ Language in this section reflects how cost allocation is currently instituted.
 - Designed to provide a cost allocation method during period between when the proposed Rule language is adopted and when the CPUC addresses cost allocation questions.
- **Y** Concerns expressed with respect to:
 - Some concerns about who bears the cost for system modifications.

Rule 21 Overview - Section 6 Metering, Monitoring, and Telemetry

- Y Objective: To respond to the need for requiring advanced metering equipment in order to efficiently schedule and dispatch distributed generation.
- ¥ Lots of disagreement about whether net generation metering is required.
- * More detailed discussion forthcoming later in the hearing.

Rule 21 Overview - Section 7 Dispute Resolution Process

- ¥ Objective: Develop a process for parties to resolve interconnection issues.
- ¥ Disputing parties have 45 calendar days to resolve among themselves.
 - Otherwise, CPUC current dispute rules apply.
- Y Concerns expressed with respect to:
 - Dispute process skewed in favor of the utility.

Rule 21 Overview - Section 8 Definitions

- ¥ Objective: Develop consistent terminology for Rule language.
- ¥ Over 50 definitions developed.
- Y Parties generally comfortable with extent of definitions although receptive to additional terms if necessary.

Rule 21 Overview - Appendices

¥ Appendix A: Rule 21 Compilation Document

— Contains proposed Rule language with alternative opinions stated by parties who may either not agree with language or wish to add some further elaboration for the Committee.

* Appendix B: Testing and Certification Process

- Describes procedures by which distributed generating equipment can be tested and qualify as certified as valid for connection to the utility system.
 - ¥ Evolving process.

Other Issues of Concern

- Y Interconnection Agreements and Sample Applications
- ¥ Lack of Balanced Representation
- ¥ Forum for Address Future Changes to Rule 21
- ¥ Extending Rules to Municipalities and Irrigation Districts
- * Monitoring the Development of Distributed Generation

Staff Recommendations to Committee

- ¥ Endorse language in Sections 1, 3, 5, 7, 8.
 - Specifically endorse concept of *Initial Review Process*.
- Y Endorse Section 4 language subject to issues raised in written comments due on May 2nd.
- ¥ Sections with Contentious Issues...
 - Section 2: EndorseSections 2.1-2.3, 2.5, 2.6, 2.8, and 2.9 and further consider debate regarding 2.4, 2.7, and 2.10.
 - Section 6: Endorse Sections 6.1, 6.2, 6.5, and 6.6 and further consider debate regarding 6.3 and 6.4.
- * Recommend that Energy Commission commit to work with the California Municipal Utilities Association to encourage municipalities and irrigation districts to adopt Rule 21-type language.

Next Steps

At the Energy Commission...

| 5/2 | Written comments due from parties |
|------|---|
| 5/31 | Committee recommendation submitted to Energy Commission |
| 6/28 | Anticipated adoption of Energy Commission recommendation at |
| | Business Meeting |

At the CPUC...

7/21(Approx) Written comments from parties about Energy
Commission process and factual misrepresentations

Nov (or Earlier) ALJ Proposed Decision